Applicant(s)/Patent under Reexamination Application/Control No. Index of Claims 09/032,893 **BIESER ET AL.** Examiner Art Unit 1771 Cheryl Juska (Through numeral) Rejected Non-Elected Appeal N Cancelled Α 0 Objected **Allowed** Restricted Interference Date Claim Claim Date Claim Date

| Final           | Original | 1/9/08 |          |          |           |          |          |          |                 |          | Final    | Original |          |          |          |                   |              |  |              |                                     |     | Final | Original   |          |          |   |          |                 |          |          |  |          |
|-----------------|----------|--------|----------|----------|-----------|----------|----------|----------|-----------------|----------|----------|----------|----------|----------|----------|-------------------|--------------|--|--------------|-------------------------------------|-----|-------|------------|----------|----------|---|----------|-----------------|----------|----------|--|----------|
|                 | 1        | 7      |          |          |           |          |          |          |                 | _        |          | 51       |          |          | 寸        | T                 |              | Τ  | T            | $\top$                              | 1 1 |       | 101        |          |          |   |          | П               |          | $\neg$   | $\neg$   | ヿ        |
|                 | 1        |        |          |          |           | $\neg$   |          |          |                 |          |          | 52       | П        | T        | T        | T                 |              |  | T            | 1                                   | ĺĺ  |       | 102        | Ţ        |          |   |          |                 |          |          | П  | $\neg$   |
|                 | 3        | 7      |          |          | ヿ         | $\neg$   |          |          | $\neg$          |          |          | 53       | П        |          | 一        |                   |              | T  | 1            |                                     | ĺ   |       | 103        |          |          |   |          |                 | $\neg$   |          | Т  | 7        |
|                 | 4        | Ž      |          |          | 寸         | $\neg$   | $\neg$   | $\Box$   |                 | $\neg$   |          | 54       |          |          | ヿ        |                   | T            |  | T            | 1                                   | 1   |       | 104        |          |          |   |          |                 |          |          | Т  | 7        |
|                 | 5        | 7      |          |          |           |          |          |          |                 | 7        |          | 55       |          |          | T        |                   |              | T  | 1            | 1                                   | 1 1 |       | 105        |          | T        |   |          |                 |          |          | $\neg$   | ٦        |
|                 | 6        | 7      |          |          | $\exists$ |          |          |          |                 | 7        |          | 56       |          | $\neg$   | _        | $\neg$            | T            | T  | Τ            | $\top$                              | ÌÌ  |       | 106        |          |          |   |          |                 | ヿ        |          | П  | ٦        |
|                 | 1        | Ť      |          |          | 寸         | 一        |          |          |                 | 7        |          | 57       |          | コ        | ヿ゙       |                   |              | T  | T            | $\top$                              |     |       | 107        |          |          |   |          |                 |          |          |  | ヿ        |
|                 | 3/       |        |          |          | T         | $\neg$   |          |          |                 | 7        |          | 58       |          |          | $\neg$   | T                 |              | Т  | T            | 1                                   |     |       | 108        |          |          |   |          |                 |          |          |  | 7        |
|                 | 9        | V      |          |          | 7         |          |          |          | $\Box$          | 7        |          | 59       |          | $\Box$   | T        |                   |              | Т  |              | 1                                   | ] [ |       | 109        |          | ı        |   |          |                 | $\Box$   |          |  | ٦        |
|                 | 10       | V      |          |          | T         | $\neg$   |          |          |                 | 7        |          | 60       |          |          | T        | T                 |              | T  |              |                                     |     |       | 110        |          |          |   |          |                 |          |          |  |          |
|                 | 11       | V      | -        |          |           |          |          |          |                 |          |          | 61       |          |          |          | Т                 |              | Т  | Т            |                                     | ] [ |       | 111        |          |          |   |          |                 |          |          |  |          |
|                 | 12       | マ      |          |          | $\neg$    | $\Box$   |          |          |                 |          |          | 62       |          |          |          | П                 |              |  |              |                                     | ] [ |       | 112        | Ī        |          |   |          |                 |          |          |  |          |
|                 | 12       |        |          |          |           |          |          |          |                 |          |          | 63       |          |          |          |                   | $\Box$       | $\perp$  | $oxed{\Box}$ |                                     |     |       | 113        |          |          |   |          |                 |          | $\Box$   | $\perp$  |          |
|                 | 17       |        |          |          |           |          |          |          |                 |          |          | 64       |          |          | J        |                   |              | $oxed{\Box}$   | $oxed{\Box}$ |                                     |     |       | 114        |          |          |   |          |                 |          | J        | $oxed{oxed}$   |          |
|                 | 15       | 7      | ,]       |          |           |          |          |          |                 |          |          | 65       |          | $\Box$   |          | $\Box$            |              |  | $\perp$      |                                     | ] [ |       | 115        |          |          |   |          |                 |          |          | $\perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$ | $\Box$   |
|                 | 16       | ン      |          |          |           |          |          |          |                 |          |          | 66       |          |          |          |                   |              |  |              |                                     |     |       | 116        |          |          |   |          |                 |          |          |  |          |
|                 | 17       | 7      |          |          |           |          |          |          |                 | ┚        |          | 67       |          |          | $\Box$   | $oldsymbol{\bot}$ | $oxed{oxed}$ |  | $\perp$      |                                     | ] [ |       | 117        |          |          |   |          |                 |          |          | $\perp$  | $\Box$   |
|                 | 18       |        |          |          |           |          |          |          |                 |          |          | 68       |          |          |          |                   |              |  | $\perp$      |                                     |     |       | 118        | $\perp$  |          |   |          | Щ               |          |          |  | _        |
|                 | 19       |        |          |          |           |          |          |          |                 | _        |          | 69       |          |          |          |                   |              |  |              |                                     |     |       | 119        |          | _        |   |          |                 |          | $\perp$  |  | _        |
|                 | 20       |        |          |          |           |          |          |          |                 |          |          | 70       |          |          |          |                   | $\perp$      | ┸  | $\perp$      |                                     | ] [ |       | 120        |          |          |   |          | Ш               |          | $\perp$  |  |          |
|                 | 21       |        |          |          |           |          |          |          |                 |          |          | 71       | Ш        |          | _        |                   | $\perp$      | 上  | L            | ـــــــــــــــــــــــــــــــــــ |     |       | 121        |          | $\Box$   |   |          | Ш               |          | _        |  |          |
|                 | 22       |        |          |          |           |          |          |          |                 | _        |          | 72       | Ш        |          |          | _                 |              | ↓  | ┶            |                                     |     |       | 122        | _        | _        |   | Ш        | Ш               |          | _        | _  | _        |
|                 | 23       |        |          |          |           |          |          |          |                 | _        |          | 73       | Ш        |          |          | $\bot$            |              | $\bot$   | _            | 1                                   | ] ] |       | 123        |          | _        |   |          |                 |          | _        | _  | _        |
|                 | 24       |        |          |          |           | _        |          |          | $\perp$         | _        |          | 74       | Ш        |          | _        | 4                 |              | $\perp$  | 1            | ļ                                   |     |       | 124        | _        | _        |   |          |                 |          | _        | _  | _        |
|                 | 25       |        |          |          | $\perp$   | _        |          |          | _               | _        | <u> </u> | 75       |          |          | _        | _                 | _            | _  | 4_           | 1                                   |     |       | 125        | _        | _        |   | _        | Ш               | _        | _        | 4  | 4        |
|                 | 26       |        |          |          |           | _        |          |          | $\perp$         | _        |          | 76       | Ш        | _        | $\dashv$ | 4                 | _            | +  | _            | ┷                                   |     |       | 126        |          | _        |   |          |                 | _        | 4        | _  | 4        |
| <u> </u>        | 27       |        |          | $\dashv$ | $\dashv$  | _        |          |          | _               | 4        | <b>—</b> | 77       | Ш        |          | _        | _                 | _            | 4  | -            | <u> </u>                            |     |       | 127        |          | _        |   |          | $\vdash$        |          | 4        | 4  | -        |
| $\vdash$        | 28       |        |          | $\dashv$ | $\dashv$  | $\dashv$ | _        |          | _               | -4       |          | 78       | Ш        | -        |          | 4                 | 4            | +  | ╄            | ╂                                   |     |       | 128        | _        |          |   |          | Н               | $\dashv$ | -        | 4  | 4        |
|                 | 29       |        |          |          |           | 4        |          |          |                 | 4        | -        | 79       | Н        | $\dashv$ | 4        | $\dashv$          | _            | +  | +            | ┼                                   |     | -     | 129        | _        |          |   |          | Н               | -        | -        | $\dashv$   | 4        |
| <u></u>         | 30       |        | _        | $\dashv$ |           | $\dashv$ |          | $\Box$   | -               | 4        | <u> </u> | 80       | $\sqcup$ | $\dashv$ | $\dashv$ | +                 |              | +  | +            | +                                   |     |       | 130        | -        |          |   |          | Н               | -        | -        | -+   | -        |
| <u> </u>        | 31       | _      | _        | $\dashv$ | $\dashv$  | -        |          |          | -               |          | -        | 81       |          | -        | -        | $\dashv$          | $\dashv$     | +  | +            | +                                   |     |       | 131<br>132 | $\dashv$ | $\dashv$ |   | _        | Н               | $\dashv$ | -+       | $\dashv$   | $\dashv$ |
| $\vdash$        | 32       | _      | -        | $\dashv$ | -         |          | -        |          | _               | -        |          | 82<br>83 | Н        | $\dashv$ | $\dashv$ | $\dashv$          | +            | +  | ╀            | +                                   |     |       | 133        | $\dashv$ | $\dashv$ |   |          | Н               |          | -+       | $\dashv$   | $\dashv$ |
| $\vdash$        | 33<br>34 | Н      | -        | $\dashv$ | $\dashv$  | $\dashv$ |          | $\dashv$ |                 | -        |          | 84       | Н        |          | -        | -                 | +            | +  | ┿            | ╁                                   |     |       | 134        | -        | -        |   |          | Н               | -        | $\dashv$ | -  | $\dashv$ |
| -               | 35       |        | -        | $\dashv$ | $\dashv$  |          | $\dashv$ | -        | -               |          |          | 85       | -        | -        | +        | +                 | $\dashv$     | +  | ╁            | +                                   | ł I |       | 135        | $\dashv$ | $\dashv$ |   | $\vdash$ | Н               | $\dashv$ | -+       |  | $\dashv$ |
| $\vdash$        | 36       | -      |          | $\vdash$ | $\dashv$  | $\dashv$ | $\dashv$ | $\vdash$ | $\dashv$        | $\dashv$ | -        | 86       | $\vdash$ | $\vdash$ |          | -+                | $\dashv$     | +  | +            | +                                   |     |       | 136        | $\dashv$ | $\dashv$ |   | -        | $\vdash$        | $\dashv$ | $\dashv$ | +  | $\dashv$ |
| $\vdash$        | 37       | Н      | -        | $\vdash$ | -         | $\dashv$ | -        | $\vdash$ | +               | $\dashv$ |          | 87       |          | $\dashv$ | $\dashv$ | $\dashv$          | +            | +  | +            | +                                   |     |       | 137        | $\dashv$ | $\dashv$ |   | $\vdash$ | $\vdash \vdash$ | $\dashv$ | $\dashv$ | +  | $\dashv$ |
| $\vdash$        | 38       | -      |          |          | -         | $\dashv$ | $\dashv$ | $\vdash$ | +               | $\dashv$ | -        | 88       | $\vdash$ | -        | $\dashv$ | $\dashv$          | 十            | +  | ╁            | +                                   |     |       | 138        | $\dashv$ | $\dashv$ |   | $\vdash$ | Н               |          | $\dashv$ |  | $\dashv$ |
| $\vdash$        | 39       | Н      | $\dashv$ | $\vdash$ | $\dashv$  | $\dashv$ | -        | $\vdash$ | $\dashv$        | $\dashv$ | -        | 89       | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$          | $\dashv$     | +  | +            | +                                   |     |       | 139        | $\dashv$ | $\dashv$ | _ | $\vdash$ | Н               |          | $\dashv$ | $\dashv$   | $\dashv$ |
| $\vdash$        | 40       | Н      | $\dashv$ | $\vdash$ | $\dashv$  | -+       | $\dashv$ | $\vdash$ | $\dashv$        | $\dashv$ | <b>-</b> | 90       | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$          | +            | +  | +            | +                                   |     |       | 140        |          | ᅱ        |   |          | Н               | $\dashv$ | $\dashv$ | $\dashv$   | $\dashv$ |
| $\vdash$        | 41       | Н      | $\dashv$ | $\dashv$ | 一         | $\dashv$ |          | Н        | $\dashv$        | $\dashv$ |          | 91       | Н        | $\dashv$ | $\dashv$ | $\dashv$          | _            | +  | +            | +                                   | 1   |       | 141        |          | _        |   |          | Н               | $\dashv$ | $\dashv$ | $\dashv$   | $\dashv$ |
|                 | 42       | Н      | $\dashv$ | $\vdash$ | $\dashv$  | -        |          |          | $\dashv$        | $\dashv$ |          | 92       | H        | $\vdash$ | $\dashv$ | $\dashv$          | $\top$       | +  | $\top$       | +                                   | 1   | -     | 142        | $\dashv$ |          |   |          | $\vdash$        |          | $^{-+}$  | 十  | $\dashv$ |
| $\vdash$        | 43       | Н      | $\neg$   |          | 一         | $\dashv$ | $\neg$   |          | $\dashv$        | $\dashv$ |          | 93       | $\vdash$ | $\dashv$ | $\dashv$ | 十                 | _            | $\top$   | +-           | $\top$                              | 1   |       | 143        | $\dashv$ | $\neg$   |   |          | Н               |          | _        | $\neg \uparrow$  | $\dashv$ |
| $\vdash \vdash$ | 44       | Н      | $\dashv$ |          | $\dashv$  | $\dashv$ | $\dashv$ | $\vdash$ | $\dashv$        | $\dashv$ |          | 94       |          | $\dashv$ | $\dashv$ | $\dashv$          | 十            | $\top$   | T            | T                                   | 1   |       | 144        | $\dashv$ | $\dashv$ |   |          | П               | -        | _        | $\dashv$   | $\dashv$ |
| $\vdash$        | 45       |        |          |          | _         | $\dashv$ | $\neg$   |          | $\dashv$        | $\dashv$ |          | 95       | П        | $\Box$   | $\dashv$ | +                 | +            | $\top$   | 1            | $\top$                              |     |       | 145        | $\neg$   | _        |   |          | М               | $\neg$   | _        | $\dashv$   | ┨        |
|                 | 46       |        |          |          | _         | $\dashv$ |          |          | $\neg \uparrow$ | ┪        |          | 96       | П        |          | $\neg$   | $\dashv$          | +            | +  | 1            |                                     |     |       | 146        | $\dashv$ |          | - |          | П               |          |          | $\top$   | ٦        |
|                 | 47       |        | $\neg$   |          | $\neg$    |          | $\neg$   |          | $\neg \uparrow$ | $\neg$   |          | 97       | П        |          | $\neg$   |                   | 十            | 1  | 1            | 1                                   |     |       | 147        |          |          |   |          | П               |          | $\neg$   | 十  | ٦        |
|                 | 48       | П      |          |          | 一         |          | $\neg$   |          |                 | ٦        |          | 98       | П        | $\dashv$ | 寸        | $\neg$            | 十            | 1  | $\top$       | T                                   |     |       | 148        | $\neg$   | $\neg$   |   | П        | П               | $\neg$   |          | $\dashv$   | ٦        |
|                 | 49       |        |          |          |           | $\neg$   |          |          |                 | 7        |          | 99       |          |          | _        |                   | $\Box$       |  | T            | Ι                                   | ]   |       | 149        |          |          |   |          |                 |          |          |  | ╗        |
|                 | 50       |        |          |          |           |          |          |          |                 |          |          | 100      |          |          | ┚        | I                 |              | $oldsymbol{ol}}}}}}}}}}}}}}$ | Ι            |                                     | ]   |       | 150        |          |          |   |          |                 |          |          | $\Box$   | J        |